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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/525,481	02/23/2005	Christoph Herrmann	DE 020200	4880
24737 75	590 10/10/2006		EXAMINER	
PHILIPS INTELLECTUAL PROPERTY & STANDARDS			GUZMAN, APRIL S	
P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510			ART UNIT	PAPER NUMBER
		·	2618	
			DATE MAIL'ED. 10/10/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/525,481	HERRMANN, CHRISTOPH					
Office Action Summary	Examiner	Art Unit					
	April S. Guzman	2631					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirr vill apply and will expire SIX (6) MONTHS from a cause the application to become AB ANDONE!	I. lety filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 23 Fe	ebruary 2005.						
, -	action is non-final.						
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) <u>1-9</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-9</u> is/are rejected.							
7) Claim(s) is/are objected to.	•						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9)☐ The specification is objected to by the Examine	r.						
10)⊠ The drawing(s) filed on <u>23 February 2005</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D						
3) Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Informal F						
Paper No(s)/Mail Date <u>08/25/2005</u> . 6) Other:							

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. The information disclosure statement submitted on August 25, 2005 has been considered by the Examiner and made of record in the application file.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1-5, and 7-9 are rejected under 35 U.S.C. 102(e) as being anticipated by Ohkubo et al. (U.S. Patent # 6,959,199).

Consider **claim 1**, Ohkubo et al. show and disclose a method for controlling the transmission power employed by a transmitting unit (base station 11, 31, 51, 71, 91) for transmitting multicast signals (multicast signal 4) via a radio interface (uplink 32 of the radio link wherein the uplink 32 may be a channel of the radio link used for random

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access) to at least two communication devices (plurality of mobile stations 21, 41, 61, 81, 101) of a multicast group using a single physical channel (A multicast signal transmission power control method that controls a transmission power of a multicast signal that is transmitted by a base station to a plurality of mobile stations through a radio link.) (Figure 1, Figure 2, Figure 4, Figure 5, Figure 7, column 1 lines 9-15, column 2 lines 25-33, column 2 lines 42-45, column 3 lines 7-10, column 4 lines 36-42, column 17 lines 40-43, and column 18 lines 62-65), wherein at least the communication device of said at least two communication devices receiving said multicast signals with the lowest quality transmits power control commands to said transmitting unit (transmitting a parameter signal, indicating the received signal quality parameter value, from the mobile stations to the base station through the radio link) (column 2 lines 42-58, column 5 lines 20-35, column 5 lines 58-67, column 7 lines 54-59, column 8 lines 16-22, column 10 lines 33-38, column 12 lines 52-58, column 16 lines 14-17, and column 17 lines 46-48), which power control commands indicate whether the transmission power employed by said transmitting unit for transmitting said multicast signals should be increased or reduced, and wherein said transmitting unit (base station) adjusts said transmission power based on power control commands received from at least one of said at least two communication devices (mobile stations) in a way that said power control commands of said communication device receiving said multicast signals with the lowest quality have at least the most significant influence on said adjustment (a power control value of each of the mobile stations is determined based on the received signal quality parameter values of the parameter signals received by the receiver and a transmission power

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controller controls the transmission power of the multicast signal that is sent to each of the mobile stations, based on the determined power control value. The transmission power of the multicast signal 4 is controlled by the transmission power controller 17 such that it is suited to the minimum value of the received signal quality parameter values received from the respective mobile stations 21.) (column 3 lines 1-6, column 3 lines 37-42, column 3 lines 46-53, column 4 lines 43-49, and column 6 lines 60-64).

Consider claim 2, as applied to claim 1 above, Ohkubo et al. show and disclose wherein each of said at least two communication devices transmits power control commands to said transmitting unit (transmitter 23, the carrier wave is modulated in accordance with the reception power, and the transmitter 23 transmits the parameter signal, indicating the reception power as the received signal quality parameter value, to the base station 11 through the uplink 32 of the radio link), wherein said transmitting unit increases said transmission power employed for transmitting said multicast signals in case any of said communication devices transmits a power control command indicating a required increase of said transmission power (when the minimum value of the received signal quality parameter values is lower than the reference reception power value and the reception power difference is a positive value then the current transmission power of the multicast signal 4 is increased by the controller 17. Wherein the reception power difference is supplied to the transmission power controller 17 as the power control value.) (Figure 1, column 6 lines 23-28 and column 6 lines 38-46), and wherein said transmitting unit reduces said transmission power only in case all of said communication devices transmit a power control command indicating that a

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reduction of said transmission power is possible (when the minimum value of the received signal quality parameter values is greater than the reference reception power value and the reception power difference is a negative value then the current transmission power of the multicast signal 4 is decreased by the controller 17. Wherein the reception power difference is supplied to the transmission power controller 17 as the power control value.) (Figure 1, column 6 lines 23-28, and column 6 lines 38-46).

Consider claim 3, as applied to claim 1 above, Ohkubo et al. disclose wherein each of said at least two communication devices (plurality of mobile stations 21, 41, 61, 81, 101) transmits a quality indication (received signal quality parameter value) to said transmitting unit (base station 11, 31, 51, 71, 91), which quality indication reflects the quality of multicast signals received at the respective communication device, wherein said transmitting unit requests the communication device providing the quality indication which reflects the lowest quality of received multicast signals to transmit in addition power control commands, wherein said communication device providing said quality indication which reflects the lowest quality of received multicast signals transmits upon said request power control commands to said transmitting unit, and wherein said transmitting unit adjusts said transmission power employed for transmitting said multicast signals according to power control commands received by said communication device providing said quality indication which reflects the lowest quality of received multicast signals (A reception power of a received multicast signal is measured by each of the mobile stations as being the received signal quality parameter value that is the base to determine a power control value of each mobile station, and a

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transmission power of the multicast signal of the base station with respect to each mobile station is controlled based on the power control value wherein the power control value is indicated by an output signal of the determination unit of the base station. The transmission power of the multicast signal 4 is controlled by the transmission power controller 17 such that it is suited to the minimum value of the received signal quality parameter values received from the respective mobile stations 21.) (column 4 lines 43-49, column 5 lines 1-5, and column 6 lines 60-64).

Consider claim 4, as applied to claim 3 above, Ohkubo et al. disclose said transmitting unit requests another communication device to transmit power control commands instead, when said transmitting unit detects that said other communication device transmits a quality indication which indicates the lowest quality of received multicast signals (When and error in demodulation of the received multicast signal is detected, each of the mobile stations transmits and automatic repeat request (ARQ) signal to the base station, and the transmission power of the multicast signal of the base station with respect to each mobile station is controlled depending on whether the ratio of the received ARQ signal to the total number of the mobile stations exceeds a predetermined ratio. When no error in demodulation of the received multicast signal is detected, each of the mobile stations transmits an acknowledge (ACK) signal to the base station, in order to confirm that the multicast signal from the base station is received at the mobile station without error. After modulation of the ARQ signal 104 or the ACK signal 105 is performed, the transmitter 23 transmits either the ARQ signal

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104 or the ACK signal 105, to the base station 91 through the uplink 32 of the radio link.) (Figure 7, column 15 lines 8-20, and column 16 lines 14-17).

Consider claim 5, as applied to claim 1 above. Ohkubo et al. disclose wherein each of said at least two communication devices transmits to said transmitting unit power control commands and a quality indication, which quality indication reflects the quality of multicast signals received at the respective communication device, wherein said transmitting unit weights said received power control commands based on said received quality indications in a way that the power control command from the communication device providing the quality indication which reflects the lowest quality of received multicast signals obtains the highest impact, wherein said transmitting unit sums the resulting weighted power control commands, and wherein said transmitting unit adjusts said transmission power employed for transmitting said multicast signals according to said weighted and summed power control commands (In the base station 91 of the multicast signal transmission system, the signal counter unit 73 calculates a ratio of the number of received ARQ signals to the sum of the number of received ARQ signals and the number of the received ACK signals. The sum of the ARQ signals number and the ACK signal number is equal to the total number of mobile stations 101. When the ratio of the ARQ signal number to the total number of mobile station 101 exceeds the predetermined ratio, the signal counter unit 93 outputs a first power control signal to the transmission power controller 17 so as to increase the current transmission power of the multicast signal 4.) (Figure 7, and column 16 lines 48-59).

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Consider **claim 7**, **as applied to claim 1 above**, Ohkubo et al. show and disclose a transmitting unit (base station 11, 31, 51, 71, 91) comprising means for carrying out the transmitting unit related steps (a base station that uses the transmission power control method for the transmission of the multicast signal) (Figure 1, Figure 2, Figure 4, Figure 5, Figure 7, column 1 lines 9-15, column 2 lines 34-41, column 2 lines 59-67 through column 3 lines 1-6, column 4 lines 50-57, column 5 lines 5-19, column 6 lines 12-33, column 7 lines 30-38, column 9 lines 61-67 through column 10 lines 1-24, column 12 lines 17-26, and column 15 lines 34-49).

Consider claim 8, as applied to claim 1 above, Ohkubo et al. show and disclose communication device (mobile station 21, 41, 61, 81, 101) comprising means for carrying out the communication device related steps (each of a plurality of mobile stations according to the transmission power control method) (Figure 1, Figure 2, Figure 4, Figure 5, Figure 7, column 4 lines 36-42, column 5 lines 20-33, column 7 lines 39-53, column 10 lines 24-38, column 12 lines 41-58, and column 15 lines 64-67 through column 16 lines 1-17).

Consider claim 9, as applied to claim 1 above, Ohkubo et al. show and disclose communication system (multicast signal transmission system) comprising a transmitting unit (base station 11, 31, 51, 71, 91) with means for carrying out the transmitting unit related steps and at least two communication devices (mobile station 21, 41, 61, 81, 101) with means for carrying out the communication device related steps (Figure 1, Figure 2, Figure 4, Figure 5, Figure 7, column 4 lines 29-31, column 6 lines 65-67, column 9 lines 33-35, column 11 lines 49-51, and column 15 lines 1-3).

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Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 7. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ohkubo et al. (U.S. Patent # 6,959,199) as applied to claim 1 above, in view of Lee et al. (U.S. Patent Application Publication 2003/0125068).

Consider claim 6, as applied to claim 1 above, Ohkubo et al. disclose power control commands (power control values) that indicate whether the current transmission power should be increased or reduced (when the minimum value of the received signal quality parameter values is lower or higher than the reference reception power value and the reception power difference is a positive or negative value then the current transmission power of the multicast signal 4 is increased or reduced by the controller

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17) (Abstract, column 2 lines 45-58, column 3 lines 46-53, column 4 lines 43-49 and column 6 lines 38-46).

However, Ohkubo et al. fails to disclose that the power control commands indicate whether the current transmission power should remain unchanged.

In the related art, Lee et al. discloses the power control commands preferably are increased/decreased/maintained at a predetermined amount ([0019], and claim 10).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate the teachings of Lee et al. into the teachings of Ohkubo et al. for the purpose of obviating that the transmission power should neither be increased or decreased and should rather remain unchanged.

Conclusion

The prior art made of record and not relied upon is considered pertinent to 8. applicant's disclosure.

Hashem et al. (U.S. Patent # 6,269,239)

Hottinen (U.S. Patent Application Publication # 2002/0115462)

Komatsu (U.S. Patent Application Publication # 2001/0023188)

Lundh et al. (U.S. Patent # 6,718,180)

Komatsu (U.S. Patent # 6,804,531)

Muller et al. (U.S. Patent Application Publication # 2004/0038698)

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9. Any response to this Office Action should be **faxed to** (571) 273-8300 **or mailed to**:

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Hand-delivered responses should be brought to

Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to April S. Guzman whose telephone number is 571-270-1101. The examiner can normally be reached on Monday - Thursday, 8:00 a.m. - 5:00 p.m., EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edan Orgad can be reached on 571-272-7884. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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April S. Guzman A.S.G/asg

EDAN ORGAD

PATENT EXAMINER/TELECOMINI Jula ay/ 1/29/06